

## Native *Propionibacterium freudenreichii* (shermanii) Fructose-6-phosphate Kinase, Pyrophosphate-dependent

Cat. No. NATE-0253

Lot. No. (See product label)

### Introduction

**Description** Fructose-1,6-bisphosphatase (FBP) is an important enzyme in glucose metabolism. It catalyzes the hydrolysis of fructose-1,6-bisphosphate to fructose-6-phosphate and inorganic phosphate. Fructose-6-phosphate kinase converts fructose-6-phosphate into fructose 1,6-bisphosphate in the rate limiting step of the glycolysis cycle.

**Applications** FBP was used to study the kinetic mechanism of pyrophosphate-dependent phosphofructokinase from *Propionibacterium freudenreichii*.

**Synonyms** EC 2.7.1.90; 6-phosphofructokinase (pyrophosphate); pyrophosphate-fructose 6-phosphate 1-phosphotransferase; inorganic pyrophosphate-dependent phosphofructokinase; inorganic pyrophosphate-phosphofructokinase; pyrophosphate-dependent phosphofructo-1-kinase; pyrophosphate-fructose 6-phosphate phosphotransferase; 55326-40-4

### Product Information

**Source** *Propionibacterium freudenreichii* (shermanii)

**Form** lyophilized powder; Contains imidazole salts and stabilizer

**EC Number** EC 2.7.1.90

**CAS No.** 55326-40-4

**Activity** 4.0-8.0 units/mg protein

**Unit Definition** One unit will convert 1.0  $\mu$ mole of pyrophosphate and fructose 6-phosphate to fructose 1,6-diphosphate and inorganic phosphate per min at pH 7.4 at 30°C.

### Storage and Shipping Information

**Storage** -20°C